

Form PTO 1449  
Rev. 7/80  
U.S. Department of Commerce  
Patent and Trademark Office  
LIST OF PRIOR ART CITED BY APPLICANT  
(Use Several Sheets If Necessary)

Atty. Docket No.  
Mo-6470 / LeA 34,772

Serial No.  
09/909,556

Applicant  
Eva-Maria Franken et al

Filing Date  
July 20, 2001

Group  
1645

Sheet **RECEIVED**

DEC 30 2002

TECH CENTER 1600/29

DEC 24 2002

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA					
	AB					
	AC					
	AD					
	AE					
	AF					
	AG					
	AH					
	AI					
	AJ					
	AK					

**FOREIGN PATENT DOCUMENTS**

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
						Yes No*
MM	AL 01/36447	05/25/01	World			
MM	AM 99/50658	10/07/99	World			
MM	AN 99/60014	11/25/99	World			
	AO					
	AP					

**OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)**

MM	AR	Clayton G M Et Al: "The structure of the ultraspiracle ligand-binding domain reveals a nuclear receptor locked in an inactive conformation." Proceedings of the National Academy of Sciences of the United States of America. United States 13 Feb 2001, Bd. 98, Nr. 4, 13. Februar 2001 (2001-02-13), Seiten 1549-1554, XP002216496 ISSN: 0027-8424 das ganze Dokument
MM	AS	Billas I M L Et Al: "crystal structure of the ligand-binding domain of the ultraspiracle protein usp, zthe ortholog of retinoid x receptors in insects" Journal of Biological Chemistry, American Society of Biological Chemists, Baltimore, MD, US, Bd. 276, Nr. 10, 9. Marz 2001 (2001-03-09), Seiten 7465-7474, XP002186547 ISSN: 0021-9258 das ganze Dokument
MM	AT	Jones G Et Al: "Considerations on the structural evidence of a ligand-binding function of ultraspiracle, an insect homolog of vertebrate RXR." Insect Biochemistry and Molecular Biology. England 2000 Aug-Sep., Bd. 30, Nr. 8-9, August 2000 (2000-08), Seiten 671-679, XP002216497 ISSN: 0965-1748, Seite 676, linke Spalte, Absatz 1 - Seite 678, rechte Spalte, Absatz 1

EXAMINER

DATE CONSIDERED

EXAMINER Initial if references considered, whether or not citation is in conformance with MPEP 609: Draw line through if not in conformance and not considered. Include copy of this form with next communication to applicant.

Neither English Language Equivalent nor an English Language Translation is available.

JUN 17 2002  
 3024  
 PATENT & TRADEMARK OFFICE

Form PTO 1449 Rev. 7-80	U.S. Department of Commerce Patent and Trademark Office	Atty. Packet No. MCA 70/LeA 34,772	Serial No. 09/909,556
<b>LIST OF PRIOR ART CITED BY APPLICANT</b> (Use Several Sheets If Necessary)		Applicant Eva-Maria Franken et al	
		Filing Date July 20, 2001	Group 1645

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA					
	AB					
	AC					
	AD					
	AE					
	AF					
	AG					
	AH					
	AI					
	AJ					
	AK					

**RECEIVED**  
 JUN 21 2002  
 TECH CENTER 1600/2900

**FOREIGN PATENT DOCUMENTS**

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
					Yes    No*
AL					
AM					
AN					
AO					
AP					

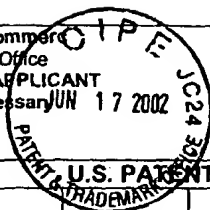
**OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)**

Mis	AR	Nature 347, pages 298-301, September 20, 1990, pages 298-301, "Relationship between the production of Drosophila ultraspiracle locus and the vertebrate retinoid X receptor", Anthony E. Oro, Michael McKeown and Ronald M. Evans
J	AS	Current Opinion in Cell Biology 10, (month unavailable) 1998, page 384-391, "The nuclear receptor ligand-binding domain: structure and function", Dino Maras and Hinrich Gronemeyer
MM	AT	Recent Progress in Hormone Research, Vol. 49, (month unavailable) 1994, pages 167-195 "Steroid Receptors and Other Transcription Factors in Ecdysone Response", William A. Segraves
EXAMINER		DATE CONSIDERED
		02/27/02

EXAMINER Initial if referenced considered, whether or not citation is in conformance with MPEP 609: Draw line through if not in conformance and not considered. Include copy of this form with next communication to applicant.

\* Neither English Language Equivalent nor an English Language Translation is available.

Form PTO 1449 Rev. 7-80	U.S. Department of Commerce Patent and Trademark Office <b>LIST OF PRIOR ART CITED BY APPLICANT</b> (Us Several Sheets If Necessary)	Atty. Docket No. Mo6470/LeA 34,772	Serial No. 09/909,556
		Applicant Eva-Maria Franken et al	Group 1645
		Filing Date July 20, 2001	



EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

RECEIVED

JUN 21 2002

TECH CENTER 1600/2900

## FOREIGN PATENT DOCUMENTS

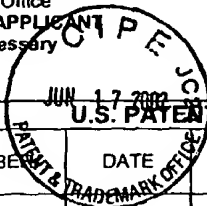
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							Yes	No*
	AL							
	AM							
	AN							
	AO							
	AP							

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

MPEP	AR	Insect Biochem. Mol. Biol. 25(8), (month unavailable) 1995, pages 881-897, "Insect Nuclear Receptors: A Developmental and Comparative Perspective", Vincent C. Henrich and Neil E. Brown
	AS	Cell, Vol. 83, December 15, 1995, pages 871-877, "From Embryogenesis to Metamorphosis: The Regulation and Function of Drosophila Nuclear Receptor Superfamily Members", Carl S. Thummel
	AT	Science, Vol. 271, January 5, 1996, pages 40-41, "Ecdysis Control Sheds Another Layer," James W. Truman
EXAMINER		DATE CONSIDERED
EXAMINER Initial if referenced considered, whether or not citation is in conformance with MPEP 609: Draw line through if not in conformance and not considered. Include copy of this form with next communication to applicant.		

Neither English Language Equivalent nor an English Language Translation is available.

Form PTO 1449 Rev. 7-80	U.S. Department of Commerce Patent and Trademark Office	Atty. Docket No. Mo6470/LeA 34,772	Serial No. 09/909,556
LIST OF PRIOR ART CITED BY APPLICANT (Use Several Sheets If Necessary)		Applicant Eva-Maria Franken et al	
		Filing Date July 20, 2001	Group 1645



EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

RECEIVED

JUN 21 2002

TECH CENTER 1600/2900

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							Yes	No*
	AL							
	AM							
	AN							
	AO							
	AP							

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	AR	Nature, Vol. 366, December 2, 1993, pages 476-479, "Functional ecdysone receptor is the product of EcR and Ultraspicle genes", Tso-Pang Yao, Barr Marc Forman, Zeyu Jiang, Lucy Cherbas, J.-Don Chen, Michael McKeown, Peter Cherbas & Ronald M. Evans
	AS	Development 125, (month unavailable) 1998, pages 4709-4717, "The RXR homolog Ultraspicle is an essential component of the Drosophila ecdysone receptor," Bonnie L. Hall and Carl S. Thummel
	AT	Arch. Insect Biochem. Physiol. 41, (month unavailable) 1999, pages 99-106, "The Ecdysone Receptor Puzzle", M. Lezzi, T. Bergman, J.-F. Mouillet and V.C. Henrich
EXAMINER		DATE CONSIDERED
EXAMINER Initial if referenced considered, whether or not citation is in conformance with MPEP 609: Draw line through if not in conformance and not considered. Include copy of this form with next communication to applicant.		

Neither English Language Equivalent nor an English Language Translation is available.

Form PTO 1449 Rev. 7-80	U.S. Department of Commerce Patent and Trademark Office	Atty. Docket No. Mo6470/LeA 34,772	Serial No. 09/909,556
LIST OF PRIOR ART CITED BY APPLICANT (Use Several Sheets If Necessary)		Applicant Eva-Maria Franken et al	
		Filing Date July 20, 2001	Group 1645



## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

RECEIVED

JUN 21 2002

TECH CENTER 1600/2900

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							Yes	No*
	AL							
	AM							
	AN							
	AO							
	AP							

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	AR	J. Insect Physiol. Vol. 42, No. 10, (month unavailable) 1996, pages 937-941, "Ecdysteroid Receptor Binding Activity and Ecdysteroid Agonist Activity at the Level of Gene Expression are Correlated with the Activity of Dibenzoyl Hydrazines in Larvae of Bombyx mori", Kenichi Mikitani
	AS	Annu. Rev. Entomol. 43, (month unavailable) 1998, pages 545-569, "New Insecticides with Ecdysteroidal and Juvenile Hormone Activity", Tarlochan S. Dhadialla, Glenn R. Carlson and Dal P. Le
	AT	Insect Biochem. and Mol. Biol., 28, (month unavailable) 1998, pages 693-704, "Basis for selective action of a synthetic molting hormone agonist, RH-5992 on lepidopteran insects", M. Sundaram S.R. Palli, P.J. Krell, S.S. Sohi, T.S. Dhadialla, A. Retnakaran

EXAMINER

DATE CONSIDERED

EXAMINER Initial if referenced considered, whether or not citation is in conformance with MPEP 609: Draw line through if not in conformance and not considered. Include copy of this form with next communication to applicant.

Neither English Language Equivalent nor an English Language Translation is available.

Form PTO 1449 Rev. 7-80	U.S. Department of Commerce Patent and Trademark Office <b>LIST OF PRIOR ART CITED BY APPLICANT</b> (Use Several Sheets If Necessary)	Atty. Docket No. Mo6470/LeA 34,772	Serial No. 09/909,556
JUN 17 2002		Applicant Eva-Maria Franken et al	
		Filing Date July 20, 2001	Group 1645

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

RECEIVED

JUN 21 2002

TECH CENTER 1600/2900

## FOREIGN PATENT DOCUMENTS

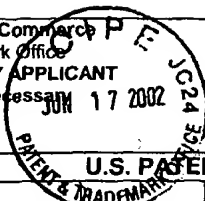
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							Yes	No*
	AL							
	AM							
	AN							
	AO							
	AP							

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	AR	J. Mol. Biol., 261(3), (month unavailable) 1996, pages 470-489, "A Fast Flexible Docking Method using an Incremental Construction Algorithm", Matthias Rarey, Bernd Kramer, Thomas Lengauer and Gerhard Klebe
	AS	J. Mol. Biol., 267, (month unavailable) 1997, pages 727-748, "Development and Validation of a Genetic Algorithm for Flexible Docking", Gareth Jones, Peter Willett, Robert C. Glen, Andrew R. Leach and Robin Taylor
	AT	J. Comp.-Aided Mol. Design, 6, (month unavailable) 1992, pages 593-606, "LUDI: rule-based automatic design of new substituents for enzyme inhibitor leads", Hans-Joachim Böhm
EXAMINER		DATE CONSIDERED
EXAMINER Initial if referenced considered, whether or not citation is in conformance with MPEP 609: Draw line through if not in conformance and not considered. Include copy of this form with next communication to applicant.		

Neither English Language Equivalent nor an English Language Translation is available.

Form PTO 1449 Rev. 7-80	U.S. Department of Commerce Patent and Trademark Office	Atty. Docket No. Mo6470/LeA 34,772	Serial No. 09/909,556
LIST OF PRIOR ART CITED BY APPLICANT (Use Several Sheets If Necessary)		Applicant Eva-Maria Franken et al	
		Filing Date July 20, 2001	Group 1645



## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

RECEIVED

JUN 21 2002

TECH CENTER 1600/2900

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							Yes	No*
	AL							
	AM							
	AN							
	AO							
	AP							

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AR	Tetrahedron, Vol. 47, No. 43, (month unavailable) 1991, pages 8985-8990, "Automatic Creation of Drug Candidate Structures Based on Receptor Structure. Starting Point for Artificial Lead Generation", Yoshihiko Nishibata and Akiko Itai
AS	Proteins: Structure, Function and Genetics, 11 (4), (month unavailable) 1991, pages 314-328, "Computer Design of Bioactive Molecules: A Method for Receptor-Based de Novo Ligand Design", Joseph B. Moon and W. Jeffrey Howe
AT	Methods in Enzymology, Vol. 276, (month unavailable) 1997, pages 307-326, "Processing of X-Ray Diffraction Data Collected in Oscillation Mode", Zbyszek Otwinowski and Wlodek Minor
EXAMINER	DATE CONSIDERED
	02/27/04

EXAMINER Initial if referenced considered, whether or not citation is in conformance with MPEP 609: Draw line through if not in conformance and not considered. Include copy of this form with next communication to applicant.

Neither English Language Equivalent nor an English Language Translation is available.

Form PTO 1449 Rev. 7-80	U.S. Department of Commerce Patent and Trademark Office	Atty. Docket No. Mo6470/LeA 34,772	Serial No. 09/909,556
LIST OF PRIOR ART CITED BY APPLICANT (Use Several Sheets If Necessary)		Applicant Eva-Maria Franken et al	
		Filing Date July 20, 2001	Group 1645

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPRO- PRIATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

RECEIVED

JUN 21 2002

TECH CENTER 1600/2900

## FOREIGN PATENT DOCUMENTS

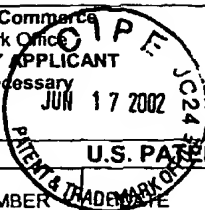
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							Yes	No*
	AL							
	AM							
	AN							
	AO							
	AP							

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AR	Acta Cryst., A50 (month unavailable) 1994, pages 157-163, "AMoRe; an Automated Package for Molecular Replacement", J. Navaza
AS	EMBO Journal, Vol. 19, No. 11, (month unavailable) 2000, pages 2592-2601, "Crystal structure of the human RXR $\alpha$ ligand-binding domain bound to its natural ligand 9- <i>cis</i> retinoic acid", Pascal F. Egea, André Mitschler, Natacha Rochel, Marc Ruff, Pierre Chambon and Dino Moras
AT	Acta Cryst., A47, (month unavailable) 1991, pages 110-119, "Improved Methods for Building Protein Models in Electron Density Maps and the Location of Errors in these Models", T.A. Jones, J.-Y. Zou and S.W. Cowan
EXAMINER	DATE CONSIDERED
EXAMINER Initial if referenced considered, whether or not citation is in conformance with MPEP 609: Draw line through if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Neither English Language Equivalent nor an English Language Translation is available.

Form PTO 1449 Rev. 7-80	U.S. Department of Commerce Patent and Trademark Office	Atty. Docket No. Mo6470/LeA 34,772	Serial No. 09/909,556
LIST OF PRIOR ART CITED BY APPLICANT (Use Several Sheets If Necessary)		Applicant Eva-Maria Franken et al	
		Filing Date July 20, 2001	Group 1645



## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA					
	AB					
	AC					
	AD					
	AE					
	AF					
	AG					
	AH					
	AI					
	AJ					
	AK					

RECEIVED

JUN 21 2002

TECH CENTER 1600/2900

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							Yes	No*
	AL							
	AM							
	AN							
	AO							
	AP							

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	AR	Acta Cryst., D53, (month unavailable) 1997, pages 448-455, "wARP: Improvement and Extension Of Crystallographic Phases by Weighted Averaging of Multiple-Refined Dummy Atomic Models", Anastassis Perrakis, Titia K. Sixma, Keith S. Wilson and Victor S. Lamzin
	AS	Acta Cryst., D54, (month unavailable) 1998, page 905-921, "Crystallography & NMR System: A New Software Suite for Macromolecular Structure Determination", Axel T. Brünger, Paul D. Adams, G. Marius Clore, Warren L. DeLano, Piet Gros, Ralf W. Grosse-Kunstleve, Jian -Sheng Jiang, John Kuszewski, Michael Nilges, Navraj S. Pannu, Randy J. Read, Luke M. Rice, Thomas Simonson and Gregory L. Warren
	AT	J. Appl. Crystallogr. 26, (month unavailable) 1993, pages 283-291, "PROCHECK: a program to check the stereochemical quality of protein structures", Roman A. Laskowski, Malcolm W. MacArthur, David S. Moss and Janet M. Thornton
EXAMINER		DATE CONSIDERED
		02/27/04

EXAMINER Initial if referenced considered, whether or not citation is in conformance with MPEP 609: Draw line through if not in conformance and not considered. Include copy of this form with next communication to applicant.

Neither English Language Equivalent nor an English Language Translation is available.